

Southern California Background and Potential Research Area Sites



Los Angeles District

SITE SELECTION CRITERIA

- Device/Methodology
- Project Monitoring
- Avoid negative impacts to adjacent shoreline
- Not adversely affect the aesthetic appeal of the area

RESEARCH AREA SELECTION

- **❖**Site Visits
 - ❖ Ventura County − 1 July 2002
 - ❖Northern SD County − 30 July 2002
- Environmental Assessment

POTENTIAL RESEARCH AREA SITES

- ❖Oil Piers, Ventura County
- South Carlsbad State Beach, Carlsbad
- ❖ Moonlight State Beach, Encinitas
- Fletcher Cove, Solana Beach

RESEARCH AREA DESCRIPTION DEVELOPMENT

- ❖ Development of Research Area Descriptions
 - ♦ Meetings 11 and 12 September 2002
 - Objectives
 - *****Constraints

OIL PIERS, VENTURA COUNTY

- Land Owned by County of Ventura and California State Lands Commission
- Located in northern Ventura County along Highway 101.
- Named for removed Mobil Oil piers
- The beach is backed by a rock revetment and bluff.
- *Beach access



Oil Piers Site (1996)

OIL PIERS, VENTURA COUNTY Design Objectives

❖ Innovative design & Initial Beach Fill

- Sand Sources
- Preserve/Enhance
 - **❖**Environmental Resources
 - *Recreation
- **❖** Sediment Transport
- ❖ No Significant impacts
 - **❖**Marine Organisms
 - *Recreation
 - **❖**Marine Vegetation
 - ❖Hard Bottom Habitat



Oil Piers Site Looking Northwest

OIL PIERS, VENTURA COUNTY Design Requirements

- ❖ Beach Fill Placement Logistics
- Success Criteria
- Methodology and Estimated Costs for Removal



Ref: M&N Engineers

Oil Piers Site Looking Northwest

OIL PIERS, VENTURA COUNTY Site Data Available

- * Beach Profiles
- ❖ Aerial Photograph (1996)
- * Removal/Piers 97
- South Central Coast Beach Enhancement Program
- Other coastal and technical biological studies
- ❖ Data used as baseline information to assess performance



Oil Piers Site Looking South

SOUTH CARLSBAD STATE BEACH, CARLSBAD

- Land Owned by California
 State Lands Commission and
 California Dept. Parks and
 Recreation
- Located South of Terramar Point and north of South Carlsbad State Beach campgrounds
- ❖ Existing beach eroded and flat sandy beach, scattered cobbles and vegetated bluffs
- **❖**Beach access



SOUTH CARLSBAD STATE BEACH Design Objectives

- ❖ Innovative design & Initial Beach Fill
- Sand Sources
- Preserve/Enhance
 - *Environmental Resources
 - *Recreation
- **❖** Sediment Transport
- No Significant impacts
 - **❖**Marine Organisms
 - *Recreation
 - **❖**Marine Vegetation
 - ❖Hard Bottom Habitat



South Carlsbad State Beach Looking North

SOUTH CARLSBAD STATE BEACH Design Requirements

- ❖ Beach Fill Placement Logistics
- Success Criteria
- Avoid sewer outfall located 200 feet north of campgrounds
- ❖ Potential Beach Fill Sources - Agua Hedionda Lagoon and Batiquitos Lagoon
- Methodology and Estimated Costs for Removal



South Carlsbad State Beach Looking South

SOUTH CARLSBAD STATE BEACH Site Data Available

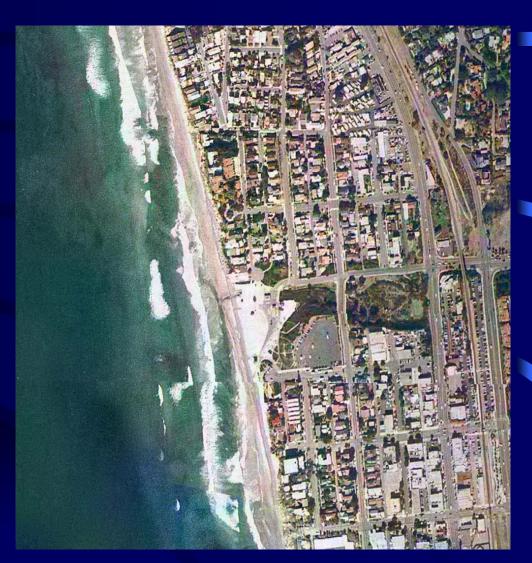
- ❖ Beach Profiles (1986 present)
- ❖ Army Corps Recon Study (1994)
- **❖** Navy Homeporting EIS
- ❖ SANDAG Regional Beach Sand Project EIR (2000)
- ❖ Aerial Ortho-photography (2001)
- ❖ Sediment Transport Study for Agua Hedionda Lagoon (1999)
- ❖ Beach photography library
- Offshore Mapping for Biological Resourced



Bluffs backing South Carlsbad State Beach

MOONLIGHT STATE BEACH, ENCINITAS

- *Land Owned by California
 Dept of Parks and Recreation
 and California State Lands
 Commission
- ❖ Moonlight State Beach is 0.1 miles long at foot of Encinitas Boulevard
- Gently sloping beach with sand and cobbles
- **❖**Beach access



MOONLIGHT STATE BEACH Design Objectives

- ❖ Innovative design & Initial Beach Fill
- Sand Sources
- Preserve/Enhance
 - **❖**Environmental Resources
 - *Recreation
- ❖ Sediment Transport
- ❖ No Significant impacts
 - **❖**Marine Organisms
 - *Recreation
 - **❖**Marine Vegetation
 - ❖Hard Bottom Habitat



Moonlight State Beach Looking North

MOONLIGHT STATE BEACH Design Requirements

- ❖ Beach Fill Placement Logistics
- Success Criteria
- Methodology and Estimated Costs for Removal
- ❖ State Parks' General Plan



Moonlight State Beach Looking South

MOONLIGHT STATE BEACH Site Data Available

- ❖ Beach Profiles (1996 present)
- ❖ Navy Homeporting EIS
- ❖ SANDAG Regional Beach Sand Project EIR (2000)
- ❖ Aerial Ortho-photography (2001)
- **❖** Beach photography library
- Offshore Mapping for Biological Resourced



Site

Moonlight State Beach Oblique Aerial

FLETCHER COVE, SOLANA BEACH

- Land Owned by California State Lands Commission and City of Solana Beach
- ❖Located western end of Lomas Santa Fe Drive
- Small sandy beach at low tide
- Riprap revetment and other shore protection line the adjacent bluffs
- *Beach access



FLETCHER COVE Design Objectives

❖ Innovative design & Initial Beach Fill

- Sand Sources
- Preserve/Enhance
 - **❖**Environmental Resources
 - *Recreation
- **❖** Sediment Transport
- ❖ No Significant impacts
 - Marine Organisms
 - *Recreation
 - **❖**Marine Vegetation
 - ❖ Hard Bottom Habitat



Fletcher Cove Looking South

FLETCHER COVE Design Requirements

- ❖ Beach Fill Placement Logistics
- Success Criteria
- Methodology and Estimated Costs for Removal



Fletcher Cove Looking North

FLETCHER COVE Site Data Available

- ❖ Beach Profiles (1996 present)
- ❖ Navy Homeporting EIS
- ❖ SANDAG Regional Beach Sand Project EIR (2000)
- ❖ Aerial Ortho-photography (2001)
- ❖ Beach photography library
- Offshore Mapping for Biological Resourced



Fletcher Cove Oblique Aerial

ALL SITE REQUIREMENTS

- Environmental Permitting
 - **❖**Environmental Assessment
 - **❖** Water Quality Certificate
 - ❖Caifornia Dept. of Parks and Rec
 - **❖** California State Lands Commission
 - ❖California Coastal Commission
- Engineering Assessment
 - Stability
 - ❖Predicated Beach Response

LOCAL CONTACTS

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QUESTIONS??